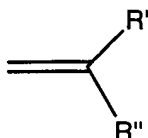


**Amendments to the Claims**

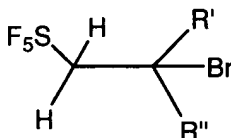
**The listing of claims will replace all prior versions, and listings, of claims in the application:**

**Listing of Claims**

1. (currently amended) A process for adding an SF<sub>5</sub> group and Br atom to a terminal alkene of the formula:



to produce a compound represented by the structure:



wherein R' and R'' are separately H, C<sub>1-20</sub>, alkyl or substituted alkyl, aryl or alkyl substituted aryl, C<sub>1-10</sub> alkoxy, C<sub>1-10</sub> alkyl ether, alkenyl, alkyl halogen, alkyl thionyl and alkyl amino, which comprises:

condensing SF<sub>5</sub>Br in said terminal alkene and, then,

~~effecting~~ reacting of said terminal alkene with SF<sub>5</sub>Br under liquid phase conditions.

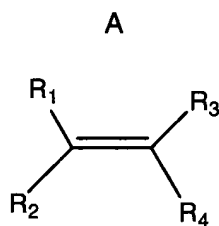
2. (currently amended) The process of Claim 1 wherein the terminal ~~olefin~~ alkene is selected from the group consisting of propylene, isobutylene, pentene, hexene, heptene, octene, decene, dodecene, 4-vinyl-1-cyclohexene, styrene, divinyl benzene and dienes selected from the group consisting of 1,4-pentadiene, 1,4-hexadiene, 1,5-hexadiene and 1,4-heptadiene, 1,5-heptadiene, and 1,6-heptadiene.

3. (Original) The process of Claim 2 wherein the reaction is carried out at a temperature of from -90 to +50 °C.

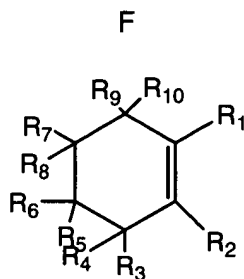
4. (currently amended) The process of Claim 3 wherein a free radical initiator is added in an amount of from 1- 25 mole % per mole of terminal alkene and the free radical initiator is a trialkyl borane.

5. (Original) The process of Claim 4 wherein the free radical initiator is a triethyl borane and the reaction is carried out at a temperature of from -90 to 0 °C.

6. (currently amended) A process for adding an SF<sub>5</sub> group and a bromine atom to an alkene having an internal olefinic bond selected from aliphatic and cycloaliphatic olefins represented by the formulas:



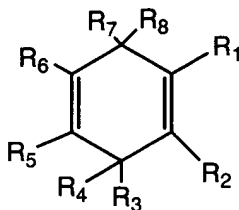
wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub> = C<sub>1-12</sub> alkyl or substituted alkyl, aryl or substituted aryl, alkoxy, alkyl ether, alkyl ester and nitrile, with R<sub>2</sub> and R<sub>4</sub> additionally being = H or halogen atoms;



wherein  $R_1$ -  $R_{10}$ = H, halogen atoms,  $C_{1-20}$ , alkyl or substituted alkyl, aryl or alkyl substituted aryl,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl ether, alkenyl, alkyl halogen, alkyl thionyl, alkyl amino, and wherein  $R_9$ ,  $R_{10}$  or  $R_3$ ,  $R_4$  also represent a carbonyl group;  $R_9$  or  $R_{10}$  and  $R_4$  or  $R_3$  also represent a bridged bicyclic compound; and wherein  $R_7$  or  $R_8$  and  $R_5$  or  $R_6$  may also represent a fused ring bicyclic or tricyclic cycloaliphatic or aromatic compound;

and

I



wherein  $R_1$ -  $R_8$  = H, halogen atoms, alkyl or substituted alkyl, aryl or substituted aryl or  $R_7$  or  $R_8$  and  $R_4$  or  $R_3$  may be bridged bicyclic compounds,  $R_7$  or  $R_8$  and  $R_5$  or  $R_6$  may be fused to form bicyclic or tricyclic cycloaliphatic rings:

which comprises condensing  $SF_5Br$  in said alkene and ~~effecting the reaction of~~ reacting said alkene with  $SF_5Br$  under liquid phase conditions in the presence of a free radical initiator.

7. (Original) The process of Claim 6 wherein said free radical initiator is selected from the group consisting of trialkyl borane, organic peroxide, organic azo, and ultraviolet light.

8. (Original) The process of Claim 7 wherein the temperature of said reacting is from -90 to +50 °C.

9. (Original) The process of Claim 8 wherein the free radical initiator is triethyl borane.

10. (currently amended) The process of Claim 9 wherein the reaction stoichiometry employs ~~a slight excess of SF<sub>5</sub>Br reactant, e.g.,~~ in an amount from 1.05 to 1.2 moles SF<sub>5</sub>Br per mole of olefin bond in said alkene.

11. (currently amended) The process of Claim 10 wherein triethyl borane is employed in an amount from 1-25 mol% based upon the moles of the olefin bond in said alkene to be ~~treated~~ reacted.

12. (currently amended) The process of Claim 11 wherein triethyl borane is employed in an amount from 5-10 mol %, based upon the moles of the olefin bond to be ~~treated~~ reacted.

13. (Original) The process of Claim 9 wherein the alkene is represented by formula A and said alkenes is selected from the group consisting of pentene, hexene, heptene, octene, decene, and dodecene.

14. (Original) The process of Claim 9 wherein the alkene is represented by structure F and said cyclic olefin is selected from the group consisting of: cyclohexene, cyclooctene, norbornene, dihydronaphthalene, dihydroanthracene, dihydrophenanthrene, octahydronaphthalene, dodecahydroanthracene, dodecahydrophenanthrene.

15. (Original) The process of Claim 9 wherein the alkene is represented by structure I and said cyclic olefin is selected from the group consisting of 1,4-cyclohexadiene, 1,6-hexahydronaphthalene, 9,13-tetrahydroanthracene.

16. (currently amended) A ~~composition~~ compound represented by the structures:



wherein R<sub>1</sub>- R<sub>8</sub> = H, halogen atoms, alkyl or substituted alkyl, aryl or substituted aryl or R<sub>7</sub> or R<sub>8</sub> and R<sub>4</sub> or R<sub>3</sub> may be bridged bicyclic compounds, R<sub>7</sub> or R<sub>8</sub> and R<sub>5</sub> or R<sub>6</sub> may be fused to form bicyclic or tricyclic cycloaliphatic rings:

17. (currently amended) The ~~composition~~ compound of Claim 16 wherein R<sub>1</sub>-R<sub>8</sub> are H.

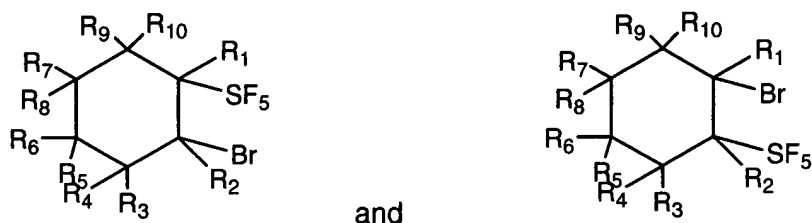
18. (currently amended) A ~~composition~~ compound represented by the structures:



wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub> = C<sub>1-12</sub> alkyl or substituted alkyl, aryl or substituted aryl, alkoxy, alkyl ether, alkyl ester and nitrile, with R<sub>2</sub> and R<sub>4</sub> additionally being = H or halogen atoms.

19. (currently amended) The ~~composition~~ compound of Claim 18 wherein  $R_2$  and  $R_4$  are  $C_{3-8}$  alkyl.

20. (currently amended) A ~~composition~~ compound represented by the structure:



wherein  $R_1$ -  $R_{10}$  = H, halogen atoms,  $C_{1-20}$ , alkyl or substituted alkyl, aryl or alkyl substituted aryl,  $C_{1-10}$  alkoxy,  $C_{1-10}$  alkyl ether, alkenyl, alkyl halogen, alkyl thionyl, alkyl amino, and wherein  $R_9$ ,  $R_{10}$  or  $R_3$ ,  $R_4$  also represent a carbonyl group;  $R_9$  or  $R_{10}$  and  $R_4$  or  $R_3$  also represent a bridged bicyclic compound; and wherein  $R_7$  or  $R_8$  and  $R_5$  or  $R_6$  may also represent a fused ring bicyclic or tricyclic cycloaliphatic or aromatic compound.

21. (currently amended) The ~~composition~~ compound of Claim 20 wherein  $R_1$ - $R_{10}$  are H.